

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-44. (Canceled)

45. A DSP-3 substrate trapping mutant polypeptide that differs from the sequence recited in SEQ ID NO:2 in one or more amino acid deletions, additions, insertions or substitutions at no more than 25% of the residues in SEQ ID NO:2, such that the polypeptide binds to a substrate with an affinity that is not substantially diminished relative to DSP-3, and such that the ability of the polypeptide to dephosphorylate a substrate is reduced relative to DSP-3.

46. A substrate trapping mutant polypeptide according to claim 45, wherein the polypeptide contains a substitution at position 57 or position 88 of SEQ ID NO:2.

47.-49. (Canceled)

50. A DSP-3 substrate trapping mutant polypeptide according to claim 45 that comprises an amino acid substitution at position 57 of SEQ ID NO:2.

51. The DSP-3 substrate trapping mutant polypeptide of claim 50 wherein the amino acid substitution at position 57 comprises an alanine residue.

52. A DSP-3 substrate trapping mutant polypeptide according to claim 45 that comprises an amino acid substitution at position 88 of SEQ ID NO:2.

53. The DSP-3 substrate trapping mutant polypeptide of claim 52 wherein the amino acid substitution at position 88 comprises a serine residue.

54. A DSP-3 substrate trapping mutant polypeptide according to claim 45 that comprises an amino acid substitution at position 57 of SEQ ID NO:2 and an amino acid substitution at position 88 of SEQ ID NO:2.

55. The DSP-3 substrate trapping mutant polypeptide of claim 54 wherein the amino acid substitution at position 57 comprises an alanine residue and wherein the amino acid substitution at position 88 comprises a serine residue.